

# Report

08/23/05

## 1. Results of the experiments using venturi:

Our expectation from the venturi was to improve pH by:

- i. Increasing DO level more than the DO of the water under open atmosphere.
- ii. Striping CO<sub>2</sub> from the water

After operating the venturi for several times in the last a couple of weeks I have observed that the improvement in DO is not significant compared to APS water under open air (approximately 1 ppm improvement).

After reinstalling the venturi on top of the tank, we did not get a chance to test the system because both of our pH sensors stopped working.

## 2. pH Sensors:

The sales person from Thornton came yesterday to take a look at the problem. He mentioned that he would discuss this with his supervisor and get back to us. In the meantime we will submit a requisition for new sensors from Thornton.

Another sales person from a different company (Endress & Hauser) visited today. He is willing to let us try their sensor for 1~2 months. We need additional information regarding potassium chloride release rate, minimum required flow rate etc. before we take any decision.